

**HIGH WALL SPLIT AIR CONDITIONER**

● User manual

## THANK YOU

Thank you for choosing this innovative Amcor air conditioner. We suggest that you keep this manual in a safe place for future reference. It describes the many benefits and advanced features this unique product has to offer. Before you use your new air conditioner you should carefully read these instructions to maximise this product's performance and the proper operation.

The appearance of the unit that you purchased may differ from the one described in the manual. This does not affect its proper operation and usage.

For over 50 years Amcor has specialised in complete indoor environmental control, manufacturing and marketing; dehumidifiers, portable air conditioners, coolers, air purifiers, ionizers and aroma therapy scent diffusers. These world class products incorporate the latest technological developments.

## SAFETY INSTRUCTIONS

### IMPORTANT!

- The inside unit is designed for indoor operation only.
- Rating: This unit must be connected to a 230 V / 60 Hz earthed outlet.
- The installation must be in accordance with regulations of the state where the unit is used.

**If you are in any doubt about the electrical installation, have it checked and if necessary modified by a qualified electrician.**

- The air conditioner is safe. However, as with other electrical appliances, use it with care. The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance (remote control).
- Do not clean the air conditioner by spraying it or immersing it in water.
- Do not insert any object into the opening of the air conditioner.
- Disconnect it from the mains before cleaning the unit or any of its components.
- Never connect the unit to an electrical outlet using an extension cord. If an outlet is not available, one should be installed by a licensed electrician.

## WARNING

- Never operate this appliance if it has a damaged cord. Do not lead the cord over sharp edges.
- A damaged supply cord should be replaced by the manufacturer, its service agent or a qualified person in order to avoid a hazard.
- Any service other than regular cleaning or filter replacement should be performed by an authorized service representative. Failure to do so could result in a loss of warranty.
- Never operate with wet hands.
- Do not attach, hang or stack anything onto the air conditioner.
- Do not sit on the exterior unit and do not stack anything on it.
- Do not insert anything into the air vents.
- Do not use combustion apparatus in the room where the air conditioner is functioning. When it is necessary to use air conditioner along with combustion apparatus in the same room, make sure there is sufficient ventilation.
- The units may not be installed in places where there might be leakage of combustible gases: fire hazard.
- Disconnect the power supply when the unit will not be used for a longer period of time.

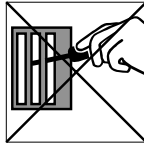
### Do not use your air conditioner when:



The power cord is damaged.



There is a change of liquids falling on the unit.



There is a risk of interference from foreign objects.



It is close to a heat source.



This air conditioner is not made for DIY repair.

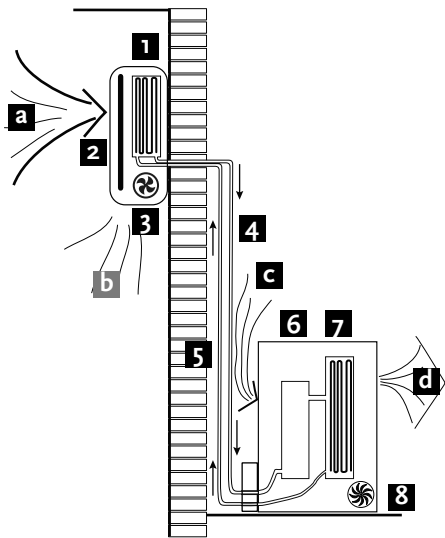
**In case of any abnormal occurrence (smoke, smell, ...), stop the operation at once, cut off the power supply and contact the dealer or authorized maintenance people.**

**When removal or repair is required, make sure to contact the professional maintenance and installation people or authorized dealer.**

## HOW IT WORKS

The compressor (6) in the exterior unit compresses the refrigerant into a high-temperature, high-pressure gas. When this gas flows along the cooling fins of the condenser (7), heat is exuded and the gas condenses into a liquid, which is led to the evaporator (1) in the interior unit. The liquid expands into a gas at a low temperature and low pressure.

This gas absorbs the warmth of the air in the room, the cooled air is blown back into the room and the heat is led to the compressor along with the gas.



- |               |                |
|---------------|----------------|
| 1. Evaporator | 5. Liquid line |
| 2. Filter     | 6. Compressor  |
| 3. Fan        | 7. Condenser   |
| 4. Gas line   | 8. Fan         |

### Cooling

A fan (3) draws the air (a) over the filter (2) and blows the cooled air (b) back into the room.

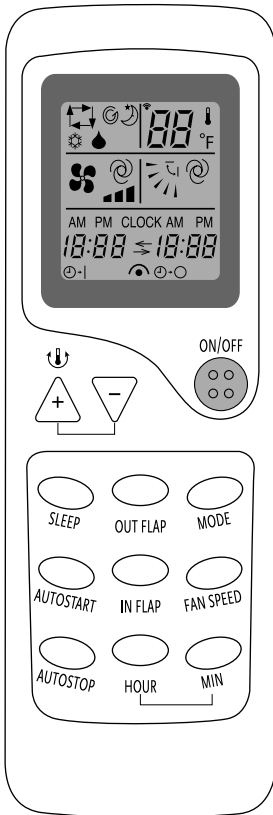
A fan (8) draws air over the condenser and blows warm air (d) away.

### Dehumidifying

















As with cooling, the moisture in the air condenses on the cold evaporator at room temperature.

## REMOTE CONTROL

**Note:** The symbols on your AHW 164 remote control may differ from the ones used in this manual.



### LCD display:

-  Auto mode
-  Sleep
-  Cool
-  Dehumidify
-  Fan mode
-  Temperature
-  Fan mode
-  Fan speed indicator
-  Auto (fan, vane control)
-  Airflow direction
-  Clock
-  Order of timer operation
-  Timer
-  Timer on
-  Timer off
-  Temperature set

### Using the remote control

The remote control signal has a range of up to 8 m. Point the remote control at the receiver in the interior unit.

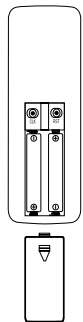
A beep confirms that the remote control signal has been received.

### Replacing the batteries

- remove the cover.
- replace the AAA batteries, pay attention to polarity: + to + and - to -.
- install the cover.















**CLK button** - To set the present time.

**RST button** - To reset all values to factory standard.



## OPERATION

### General

- Turn the appliance on with the ON/OFF button . This activates the most recent setting.
- The ON/OFF button  turns the appliance off; the type of operation set at that time is stored in the memory.
- The MODE button cycles through the various modes in this order: auto , cool , dehumidify , fan .
- The desired temperature is set with the up  and/or down -button, within the limits of the thermostat: 64 °F – 86 °F (18 °C – 30 °C). Each time the -button is pressed, the set temperature increases with 1 °F (or 1 °C); similarly when the -button is pressed, the set temperature decreases with 1 °F (or 1 °C).
- Use the FAN SPEED button to set the fan speed at low: , medium: , high:  or automatic: . The fan speed in the automatic setting is determined by the difference between the set temperature and the room temperature.

### Setting the time


The current time must be set after initial installation and at the start of a new period of use. With batteries (new, if necessary) in the remote control:

Press the CLK-button in the battery compartment with the tip of a pencil. The time indicator will flash. First use the HOUR button to set the hours, then the MIN button to set the minutes. Press the CLK-button again.

The time is used for the timer function, so accurate setting of the current time is important.






### Auto mode

1. Press the MODE button until the auto mode symbol  appears.
2. The difference between set temperature and room temperature determines how the appliance will operate: cool, dehumidify or fan. The up and down buttons for temperature setting will not work, set the desired temperature before activating auto mode.
3. Use the FAN SPEED button to set the fan speed.






### Cool

1. Press the MODE button until the cool symbol  appears.
2. Set the desired temperature with the up  and/or down -button.
3. Use the FAN SPEED button to set the fan speed.






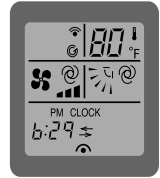
## Dehumidify

1. Press the MODE button until the dehumidify symbol  appears.
2. Set the desired temperature with the up  and/or down -button.
3. The FAN SPEED button does not work in dehumidify mode. The fan speed will always be low in this mode.




## Fan mode

1. Press the MODE button until the fan symbol  appears.
2. Set the desired temperature with the up  and/or down -button.
3. Use the FAN SPEED button to set the fan speed.




## Sleep mode

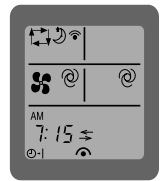
1. Press the SLEEP button to reduce the noise level of the air flow from the inside unit. Cancel the sleep mode by pressing this button again.
2. Fan speed is set to low, pressing the FAN SPEED button will deactivate the sleep mode.
3. When sleep mode is activated, the symbol  will be visible in the display.




## Timer on function

1. Press the AUTOSTART button to set the ON-timer,  will be displayed.
2. Press the HOUR button to set hours.
3. Press the MIN button to set the minutes in intervals of 10 minutes.


Once the set time has elapsed, the appliance will switch itself on. Press the AUTOSTART button again to cancel the timer on function.



## Timer off function

1. Press the AUTOSTOP button to set the OFF-timer during operation,  will be displayed.
2. Press the HOUR button to set hours.
3. Press the MIN button to set the minutes in intervals of 10 minutes.

Once the set time has elapsed, the appliance will switch itself off. Press the AUTOSTOP button again to cancel the timer off function.

Timer on and timer off can be used in combination . The function for which the set time is reached first will be performed.

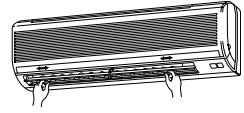
**Note:** the timer function can only be activated if the current time has been set.



## Air flow direction

### Fins (vertical vanes)

Press the IN FLAP button to let the fins turn left/right for an air flow direction that is comfortable to you.



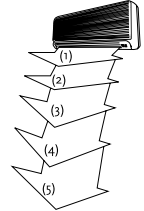
### Vanes

Press the OUT FLAP button to change the horizontal direction of the air flow, the vanes take these positions in sequence: ► ◀ ↙ ↘ ↕ Ⓢ.

Usually the auto position Ⓢ works fine.

Positions ► (1) and ◀ (2) are recommended for cool and dehumidify mode.

After one hour of operation in position ↙ (4) or ↘ (5), the vane position will revert to level in order to prevent condensed water dropping down the vanes.



Manually handling of the vanes may cause damage, use the remote control.

Do not expose anybody to the cool air for a long period of time. This may discomfort the body which may be harmful to the health.

## IMPORTANT

### Auto restart

As a protective measure of the compressor, the air conditioner will automatic restart 3 minutes after electricity is restored following a power cut. If in doubt, check the settings.

**Note:** After shut down you have to wait 3 minutes before you can restart.

### Range of internal thermostat

The internal thermostat can be set at a desired temperature between 64 °F (18 °C) and 86 °F (30 °C).

**Note:** whether the desired value is achieved depends on conditions in the room.

### Capacity

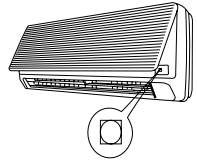
The required cooling capacity depends greatly on the location and/or use of the room where the air conditioner is installed. Strong sunlight and the presence of people, lights or equipment create an additional heat load. Normal living spaces require about 35 BTU per square feet of floor surface (~100 W/m<sup>2</sup>). In strong sunlight or if other sources of heat are present, this may be as much as 125 BTU/ft<sup>2</sup>.h (~350 W/m<sup>2</sup>).

**Tip:** on warm days, let the air conditioner cool the room as much as possible during the night. Cold walls and furniture will help to keep the room pleasant during use. Avoid strong sunlight.



## Emergency start

In the event of a problem or missing remote control, the air conditioner can be operated using the emergency button under the panel in the interior unit. Open the front panel and press the button to switch on (in the mode last set) or to switch off.

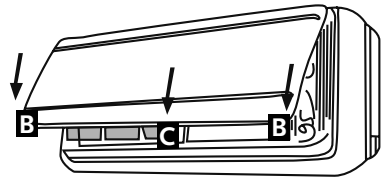


## FILTERS

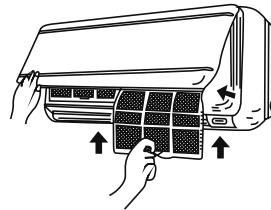
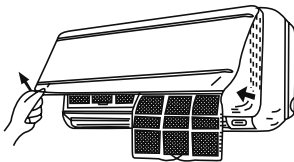
Turn the appliance off and disconnect the power.



**To open:** at the A recesses, pull the front part up. The front part will stay horizontal (turn up 60°).



**To close:** press the front part down at the sides at B and in the middle at C. Make sure it is properly closed (click).



1. Hold the front part open (or put it in horizontal position) and remove the filter(s).
2. A dirty filter reduces the capacity. Clean the filter gently, use a vacuum cleaner to remove dirt. If the dust filter is very dirty, it may be washed in lukewarm water with a very small amount of neutral detergent. Rinse well and allow to dry completely (not in direct sunlight or near a source of heat).
3. Keep the grid panel open and reinstall the filter(s). Press the panel shut; a click indicates it is closed properly.
4. Reconnect the power and turn the air conditioner on.

## CLEANING

Turn the appliance off and disconnect the power.

### Interior unit

**Check that the condensation outlet drains properly.**

Dust regularly with a dry cloth or slightly damp paper towel.

Never use chemicals or solvents. Never spray a liquid in or over the appliance.

### Exterior unit

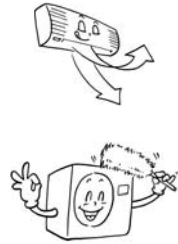
Remove dirt and keep the air intake and exhaust openings free of leaves, etc.

Cleaning with chemicals may cause damage.

## END OF PERIOD OF USE

**If the air conditioner is not going to be used for an extended period:**

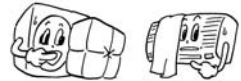
- set in fan mode with temperature set at 86°F (30°C) for about half a day so that the inside will dry completely
- stop the operation, switch off the power supply and take the batteries out the remote control
- clean the inside and outside unit
- clean the filters as well.



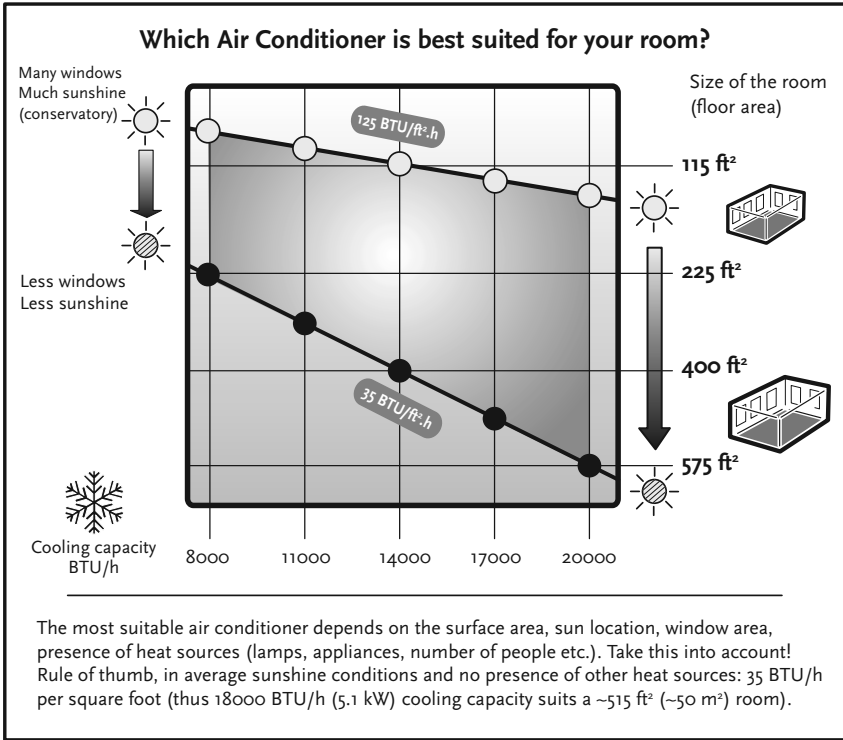
## START OF PERIOD OF USE

**If the air conditioner is to be used again after an extended period:**

- check that the air intake and exhaust openings of the interior and exterior units are not blocked. Remove all dirt and obstacles.
- check that there is a clean filter in the interior unit.
- **check that the condensation outlet of the interior unit drains properly.**
- install 2 AAA batteries in the remote control.
- clean the interior unit.
- connect to the power source, turn the appliance on, set the time and desired setting.



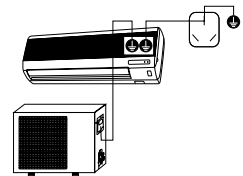
**Note:** make sure condensation is drained freely and that there is no obstacle such as algae growth, otherwise leaks may occur.



### Attention:

Make sure to have the professional after-sales service person of our company or the authorized dealer to install the units.

- The units may not be installed in places where there might be leakage of combustible gases: fire hazard.
- Make sure that an earth leakage circuit breaker is installed.
- Check whether the connection of wires between indoor and outdoor unit is not loose.
- Make sure that the air conditioner is properly earthed.
- Check the supporting structures for proper strength to carry the weight plus a safety margin.



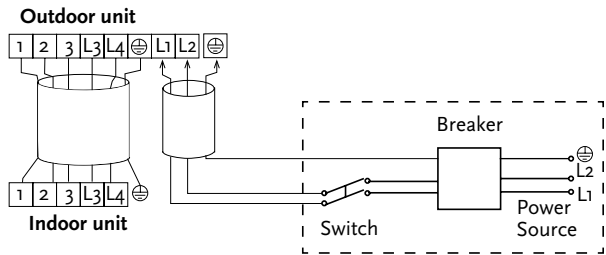
### Point of attention for the installation of electric components

- HACR type breaker should be utilized along with proper installation.
- Be sure to use the applicable voltage and cables or wires for the unit to be installed, before making the connections.
- Read the prompts at the terminal board for wiring. Make sure the wiring is done correctly.
- Pay attention to the poles of the signal terminal and connect the terminals to match the identification numbers.
- The connecting wires and the breaker are not supplied. The specification is 14 AWG, VW-1 (or THHW), copper core and 194 °F (90 °C). Their set screw diameter is 4 mm. The power source is 230 V, 60Hz, 1 phase. Minimum circuit ampacity of the wiring system is 20 A.

**When the wiring connections are wrong, the compressor will not work.**

### CONNECTION OF THE WIRES OF THE OUTDOOR UNIT

- The earth wire must be connected to the indoor unit and the outdoor unit.
- The installation of the power cables must be done by qualified electricians and comply with the regulations of the local power supply authorities and with the standards for electric appliances.
- The environment conditions must be taken into consideration when the power cable connections are made (ambient temperature, exposure to heat, sunlight).
- The specifications for the power cable refer to the minimum values of the metal core wires. Taking into consideration the voltage losses, the core wire of the power cable must be one size larger than the specifications.

















## TROUBLE SHOOTING



















Cases requiring immediate contact with your dealer:

- breaker or fuse breaks off often.
- malfunction of TV, radio or similar devices.
- switch does not result in sure performance
- abnormal noise during operation.
- if a faulty operation does not disappear after restart (after having waited for 3 minutes).

Check the following before requesting after sales service from your dealer:	
The air conditioner does not operate at all.	Is the unit connected to a power supply?
	Has the time been set?
	Is there a power failure or a blown fuse?
Poor cooling performance.	Is the temperature set at a suitable value?
	Are the filters clean?
	Open window(s), door(s), heat source(s) or many people in the room?
	Is direct sunlight entering the room?
The room temperature can not be controlled.	Is the temperature set outside the operating values?
The unit can not be restarted just after it has been switched off.	To protect the unit, restarting is only possible 3 minutes after a shut down.
Air is not blown out in dehumidifying mode.	The indoor fan is sometimes stopped to prevent vapor of dehumidified moisture.
Mist is blown out during cool mode.	This may sometimes occur when temperature and humidity in the room are very high and disappears with the lowering.
Odor is coming out.	Room air may contains smells, accumulated on the filter this can return to the room.
Cracking sound is heard.	This is caused by the refrigerant circulating inside the unit.
	Caused by the expansion or contraction of plastics (especially after a restart).
Operation can not be restarted.	The memory of the unit was cleared. Operating the remote control will restart the operation.
Remote control signal not received.	Direct sunlight or other strong light on the signal receiver on the interior unit.
Moisture drips from the air outlet vanes.	When the unit is in operation for a long period of time in high humidity, moisture may form on the vanes and drip down. Check the condensation outlet for proper drainage.

# RATING LABELS

 <b>AHW 164</b> Model	<b>INDOOR UNIT</b> See barcode Serial number	 <b>230 V 60 Hz 1 Ph</b> Power supply
 <b>5.1 kW</b> <b>18000 BTU/h</b> Cooling capacity	 <b>13 BTU/h W</b> SEER	 <b>IP 20</b> Protection class
 <b>R410A</b> Refrigerant	 <b>64-86 °F</b> <b>18-30 °C</b> Thermostatic range	 <b>1040 m³/h</b> <b>36700 cu.ft/h</b> Airflow
 <b>up to 40 L/day</b> <b>84 pts/day</b> Dehumidification	 <b>~44 - 50 dB(A)</b> Noise level	 <b>18 kg / 40 lb</b> Weight net
<p><b>Caution:</b></p> <ol style="list-style-type: none"> <li>Do not cover the air discharge openings.</li> <li>Avoid risk of electric shock: disconnect before servicing.</li> <li>Use only on a single outlet.</li> <li>Wait 3 minutes after power has been switched off before restarting.</li> <li>Moving parts inside: do not operate when the cover is removed.</li> <li>A damaged power supply cord must be replaced with a new one obtained from the manufacturer and may not be repaired.</li> </ol>		
 VERIFIED 233041	 Energy Performance Rendement Energetique SEER 13 LISTED SA 12793	 <a href="http://www.amcorgroup.com">www.amcorgroup.com</a>
Made in P.R.C.	cat# 913136150	Carlstadt, New Jersey 07072

 <b>AHW 164</b> Model	<b>OUTDOOR UNIT</b> See barcode Serial number	 <b>230 V 60 Hz 1 Ph</b> Power supply
 <b>1.2 kW</b> Rated power	 <b>9.4 A</b> Minimum circuit amperage	 <b>6.4 A</b> Rated current
 <b>15 A</b> Maximum current protection		
 <b>5.1 kW</b> <b>18000 BTU/h</b> Cooling capacity	 <b>2.4 / 4 MPa</b> <b>348/580 PSIG</b> Pressure range Suction/Discharge	 <b>13 BTU/h W</b> SEER
 <b>R410A</b> Refrigerant	 <b>4.85 lb</b> <b>2200 g</b> Refrigerant load	 <b>50-104 °F</b> <b>10-40 °C</b> Operating range
 <b>IP 24</b> Protection class	 <b>~65 dB(A)</b> Noise level	 <b>62 kg / 137 lb</b> Weight net
<p><b>Caution:</b></p> <ol style="list-style-type: none"> <li>Do not cover the air discharge openings.</li> <li>Avoid risk of electric shock: disconnect before servicing.</li> <li>Use only on a single outlet.</li> <li>Wait 3 minutes after power cut before restarting.</li> <li>Moving parts inside: do not operate when the cover is removed.</li> <li>A damaged power supply cord must be replaced with a new one obtained from the manufacturer and may not be repaired.</li> <li>Specification of the connecting wires: 14 AWG, VW-1 (or THHW), copper core and 90 °C.</li> </ol>		
 VERIFIED 233041	 Energy Performance Rendement Energetique SEER 13 LISTED SA 12793	 <a href="http://www.amcorgroup.com">www.amcorgroup.com</a>
Made in P.R.C.	cat# 913136160	Carlstadt, New Jersey 07072

Data provided is subject to modifications and is not legally binding.



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